

到这是是100%的特殊的大型。

FIG. 1

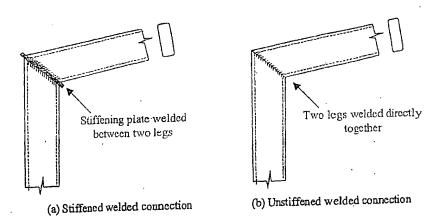
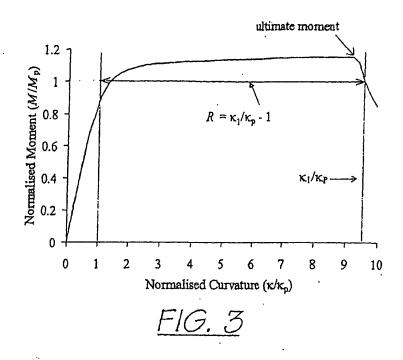
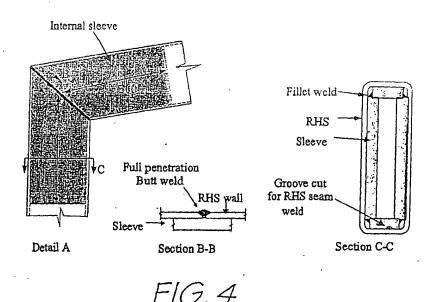
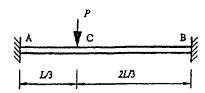
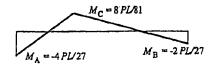


FIG. 2

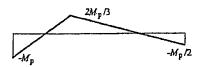




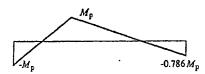




Elastic moment distribution

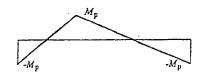


Hinge forms at A $P = 6.75 M_p/L$ Q = 0



Hinge forms at C $P = 8.68 M_p/L$

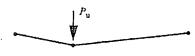




Hinge forms at B

$$P = 9 M_p/L$$

$$\theta_{A} = \frac{M_{p}L}{6EI}$$



Plastic collapse mechanism



Curvature distribution at collapse

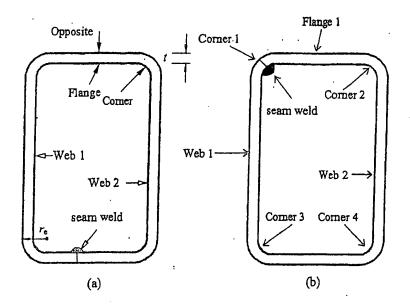
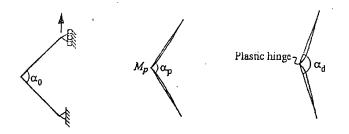
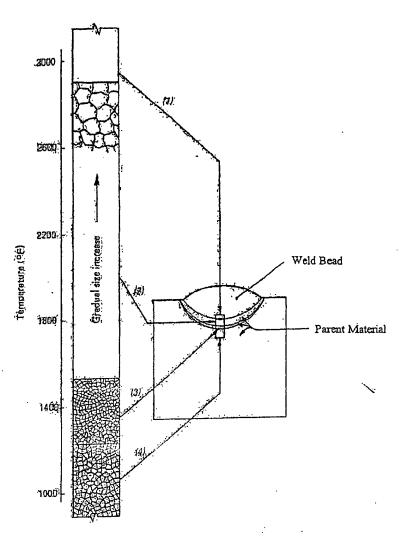


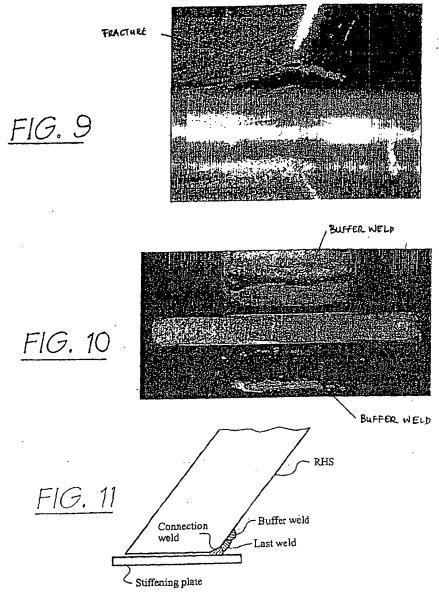
FIG. 5



- (a) Undisplaced
- (b) Displaced at the plastic moment
- (c) Displaced at any load

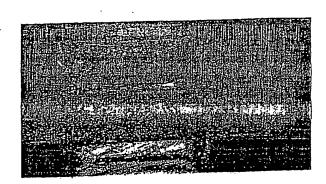


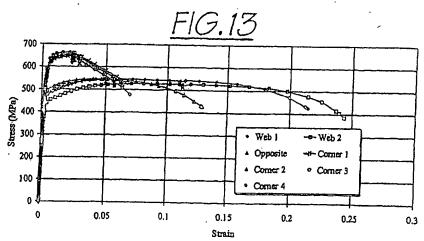
Effects of welding on grain sizes in parent material



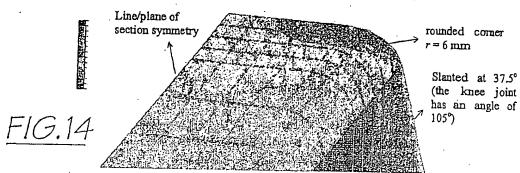
Stiffened knee joint with extra layers of weld on the inner (tension) flange

FIG.12

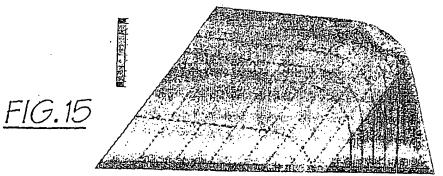




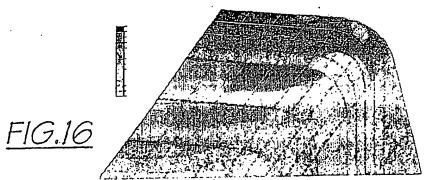
Typical stress-strain curves of DuraGal® C450 150×50×4



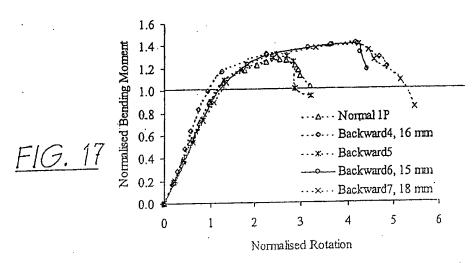
Strain pattern of a normally welded stiffened knee joint (Model 1), linear elastic analysis



Strain pattern of a normally welded stiffened knee joint (Model 1) at 1.181 M_p



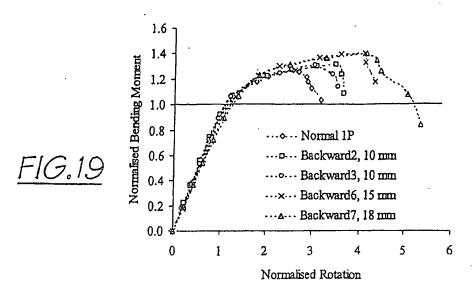
Strain pattern of a stiffened knee joint with extra layers of weld (Model 2) at 1.184 M_p



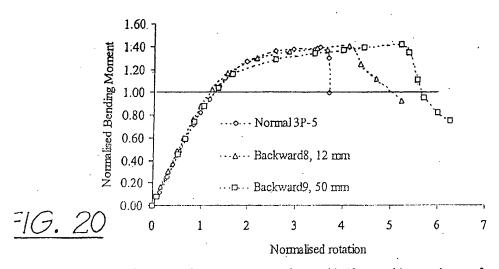
Moment-rotation curves of normal and "backward" 150×50×4 specimens

fracture

Fracture in the flange of "Backward4"



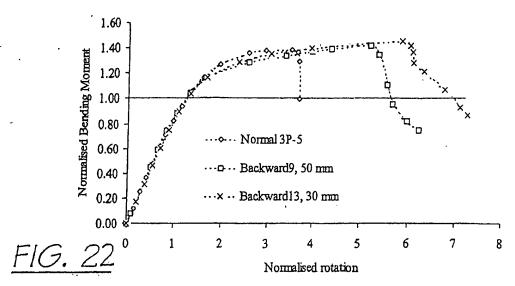
·Moment-rotation curves of 150×50×4 specimens with narrow extra layers of weld



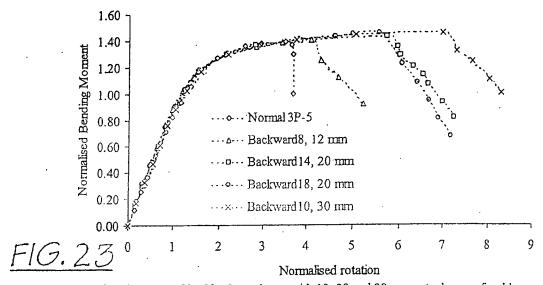
Performance of a 150×50×5 specimen with 50-mm wide extra layers of weld



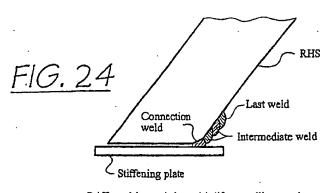
Reinforcement weld on top of the connection weld of "Backward13"



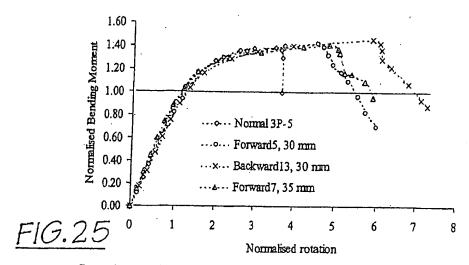
Comparison between 150×50×5 specimens with and without reinforcement weld



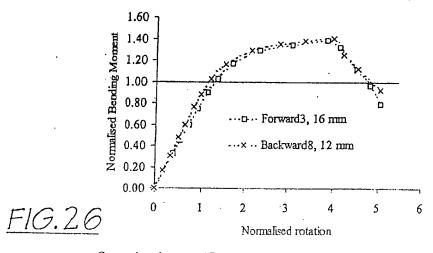
Comparison between $150 \times 50 \times 5$ specimens with 12, 20 and 30 mm extra layers of weld



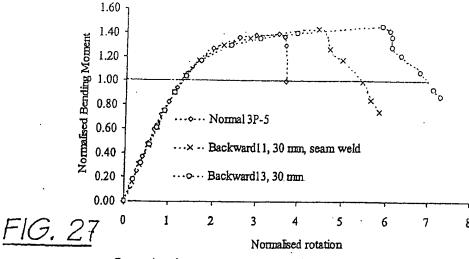
Stiffened knee joint with "forward" extra layers of weld



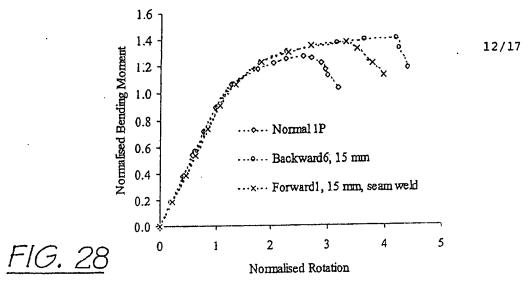
Comparison of "forward" and "backward" 150×50×5 specimens (without seam weld)



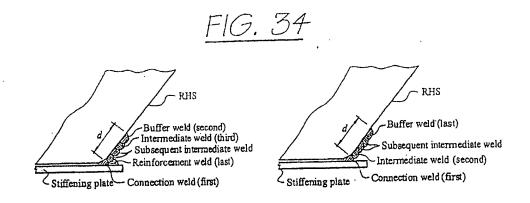
Comparison between "Forward3" and "Backward8", 150×50×5 specimens



Comparison between 150×50×5 specimens with and without seam weld

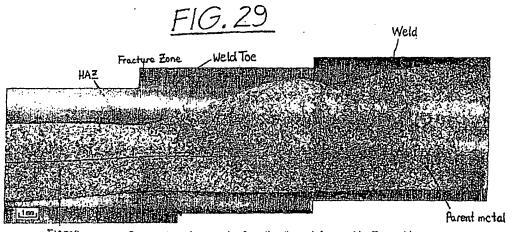


Comparison between $150 \times 50 \times 4$ specimens with and without seam weld

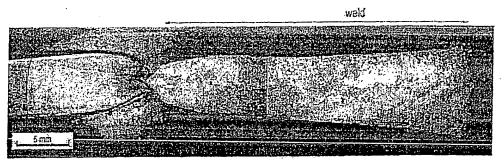


(a) Backward bead deposit sequence

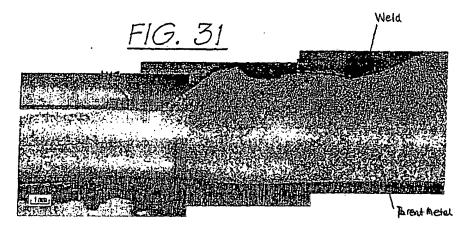
(b) Forward bead deposit sequence



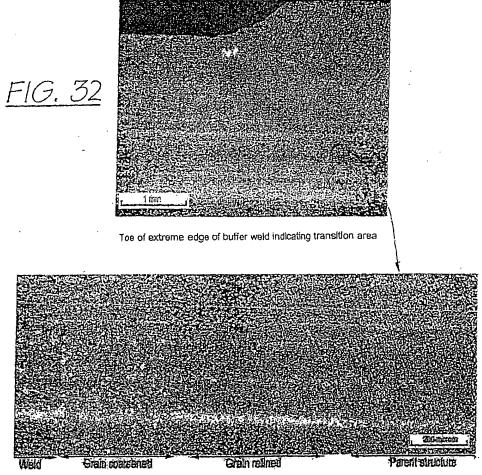
Frange Composite micrograph of section through forward buffer weld.



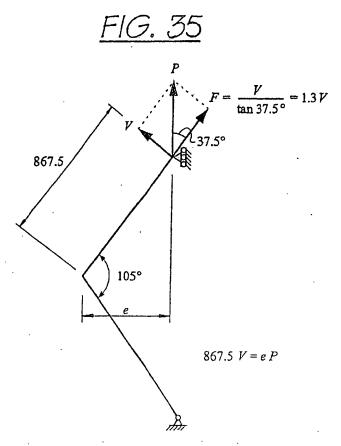
Composite micrograph of section through normal buffer weld.



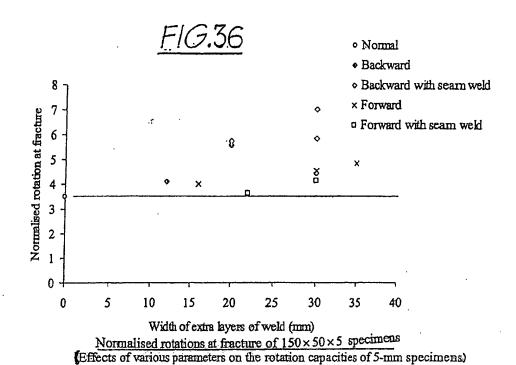
Composite micrograph of section through backward buffer weld

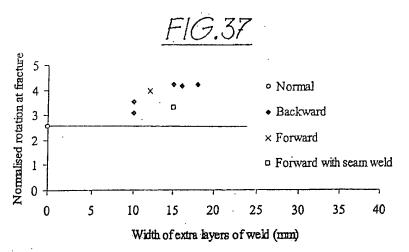


F/G.33 Transition through HAZ from weld metal to parent metal.



Schematic diagram of a knee joint specimen





(Effects of various parameters on the rotation capacities of 4-mm specimens)

Normalised rotations at fracture of $150 \times 50 \times 4$ specimens

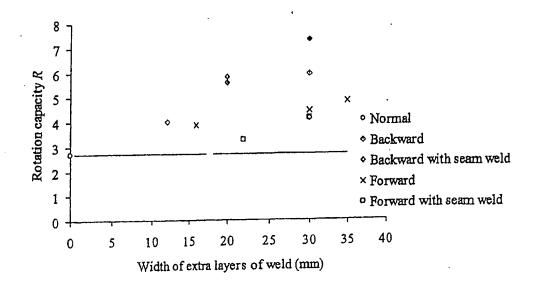


FIG. 38